

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Egisto BOSCHETTI et al.

Title: MULTIFUNCTIONAL CERAMIC PARTICLES AS SOLID SUPPORTS
FOR SOLID PHASE AND COMBINATORIAL SOLID PHASE
SYNTHESIS

Appl. No.: Unassigned

Filing Date: 06/23/2003

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop PATENT APPLICATION
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in grandparent application Serial No.: 08/820,563, filed 03/19/1997. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The relevance of the documents are described in the present application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date 23 June 2007

By



FOLEY & LARDNER
Customer Number: 22428



22428

PATENT TRADEMARK OFFICE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Date Submitted: June 23, 2003

(use as many sheets as necessary)

Complete if Known

Application Number	Unassigned
Filing Date	06/23/2003
First Named Inventor	Egisto BOSCHETTI
Group Art Unit	Unknown
Examiner Name	Unknown

Sheet	1	of	3	Attorney Docket Number	039322-0233
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	4,141,857			LEVY et al.	02/27/1979	
A2	4,544,485			PNKERTON et al.	10/01/1985	
A3	4,582,875			NGO	04/15/1986	
A4	4,735,985			ROSEVEAR et al.	04/05/1988	
A5	5,268,097			GIROT et al.	12/07/1993	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
A6	DD	296853				12/19/1991		A
A7	EP	0 295 073				12/14/1988		
A8	EP	0 529 573				03/03/1993		
A9	WO	94/08051				04/14/1994		
A10	WO	94/13623				06/23/1994		
A11	WO	94/28028				12/08/1994		
A12	WO	96/11878				04/25/1998		
A13	WO	97/33737				09/18/1997		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
A14		Atherton et al., "A Physically Supported Gel Polymer for Low Pressure, Continuous Flow Solid Phase Reactions. Application to Solid Phase Peptide Synthesis", <u>J. Chem. Soc., Chem. Commun.</u> , 1981, pages 1151-2, No. 21.	
A15		Borman, "Combinatorial Chemistry", <u>C&EN</u> , 1997, pages 43-62.	
A16		BUNIN et al., "The Combinatorial Synthesis and Chemical and Biological Evaluation of a 1,4-Benzodiazepine Library", <u>Proc. Natl. Acad. Sci. USA</u> , 1994, pages 4708-12, Vol. 91.	
A17		BUNIN et al., "A General and Expedient Method for the Solid-Phase Synthesis of 1,4- Benzodiazepine Derivatives", <u>J. Am. Chem. Soc.</u> , 1992, pages 10997-8, Vol. 114.	
A18		DEWITT et al., "Diversomers': An Approach to Nonpeptide, Nonoligomeric Chemical Diversity", <u>Proc. Natl. Acad. Sci. USA</u> , 1993, pages 6909-13, Vol. 90.	

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	A19	GALLOP et al., "Perspective : Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries", <u>J. of Medicinal Chemistry</u> , 1994, pages 1233-51, Vol. 37.	
	A20	GORDON et al., "Perspective : Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions", <u>J. of Medicinal Chemistry</u> , 1994, pages 1385-1401, Vol. 37.	
	A21	HAGINAKA et al., <u>Anal. Chem.</u> , 1989, pages 1445-8, Vol. 61.	
	A22	HOUGHTEN et al., "Generation and Use of Synthesis Peptide Combinatorial Libraries for Basic Research and Drug Discovery", <u>Nature</u> , 1991, pages 84-6, Vol. 354.	
	A23	KAKUSHIMA et al., "Regioselective Synthesis of Acylpyrroles", <u>J. Org. Chem.</u> , 1983, pages 3214-9, Vol. 48.	
	A24	KAWASE et al., "Porous Ceramic Carrier for Bioreactor", <u>Ceramic Transactions (Porous Materials)</u> , 1993, pages 391-400, Vol. 31.	
	A25	KOCIS et al., "Kemp's Triacid Scaffolding for Synthesis of Combinatorial Nonpeptide Uncoded Libraries", <u>Tetrahedron Letters</u> , 1995, pages 6623-6, Vol. 36.	
	A26	KURTH et al., "Library-Based Lead Compound Discovery: Antioxidants by an Analogous Synthesis/Deconvolutive Assay Strategy", <u>J. Org. chem.</u> , 1994, pages 5862-4, Vol. 59.	
	A27	LAM et al., "A New Type of Synthesis Peptide Library for Identifying Ligand-Binding Activity", <u>Nature</u> , pages 82-4, Vol. 354.	
	A28	OWENS et al., "The Rapid Identification of HIV Protease Inhibitors Through the Synthesis and Screening of Defined Peptide Compounds", <u>Biochem. Biophys. Res. Commun.</u> , 1991, pages 402-8, Vol. 181.	
	A29	PATEK et al., "All-cis Cyclopentane Scaffolding for Combinatorial Solid Phase Synthesis of Small Non-Peptide Compounds", <u>Tetrahedron Letters</u> , 1994, pages 9169-72, Vol. 35.	
	A30	RAMCHANDANI et al., "AlCl ₃ -Catalyzed Regiospecific Alkylation of Aromatics with Chlorobenzotrifluorides: A High Yield Preparation of 1,1-Dichlorodiphenylmethanes", <u>Tetrahedron Letters</u> , 1996, pages 4063-4, Vol. 37.	
	A31	RICHTER et al., "A TFA-Cleavable Linkage for Solid-Phase Synthesis of Hydroxamic Acids", <u>Tetrahedron Letters</u> , 1997, pages 321-2, Vol. 38.	
	A32	ROKACH et al., "A Simple and Efficient Route to β-Substituted Pyrroles", <u>Tetrahedron Letters</u> , 1981, pages 4901-4, Vol. 22.	
	A33	SALMON et al., "Discovery of Biologically Active Peptides in Random Libraries: Solution-Phase Testing after Staged Orthogonal Release from Resin Beads", <u>Proc. Natl. Acad. Sci. USA</u> , 1993, pages 11708-12, Vol. 90.	

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	A34	SEBESTYEN et al., "Chemical Synthesis of Peptides Libraries", <u>Bioorganic & Medicinal Chem. Letters</u> , 1993, pages 413-8, Vol. 3.	
	A35	XIAO et al., "Reversible Friedel-Crafts Acylations of 3-Alkyl-1-(Phenylsulfonyl) pyrroles: Application to the Synthesis of an Ant Train Pheromone", <u>Tetrahedron Letters</u> , 1996, pages 1523-6, Vol. 37.	
	A36	XU et al., "Pyrrole Chemistry XXV: A Simplified Synthesis of Some 3-Substituted Pyrroles", <u>Tetrahedron Letters</u> , 1981, pages 4899-900, Vol. 22.	
	A37	ZUCKERMAN et al., "Identification of Highest-Affinity Ligands by Affinity Selection from Equimolar Peptide Mixtures Generated by a Robotic Synthesis", <u>Proc. Natl. Acad. Sci. USA</u> , 1992, pages 4505-9, Vol. 89.	

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